

a¹ --1. (amended) A process of alleviating or protecting against the symptoms of a medical disorder involving accelerated rates of apoptosis or necrosis in a mammalian body, which process comprises (a) selecting a patient having, suspected of having or will be exposed to conditions which cause a disorder selected from the group consisting of radiation exposure disorders; and chemical exposure and ingestion disorders; (b) reacting an aliquot of blood from the mammalian body *ex vivo* with at least one stressor selected from the group consisting of a temperature above or below body temperature, ultraviolet light and an oxidative environment; and (c) administering the aliquot of blood treated in step (b) to the mammalian body; thereby reducing the rate of or susceptibility to apoptosis or necrosis of tissues and organs.

a² 7. (amended) The process of Claim 2 wherein said at least one stressor is ultraviolet light in the UV-C band wavelength.

Please add new claims 19-28 as follows:


a³ 19. (new) A method for alleviating or protecting against the symptoms of a neurological medical disorder involving accelerated rates of apoptosis or necrosis in a mammalian body, which method comprises (a) selecting a patient having or suspected of having a neurological medical disorder selected from the group consisting of Parkinson's disease, senile dementia and Alzheimer's disease; (b) reacting an aliquot of blood from the mammalian body *ex vivo* with at least one stressor selected from the group consisting of a temperature above or below body temperature, ultraviolet light and an oxidative

environment; and (c) administering the aliquot of blood treated in step (b) to the mammalian body; thereby reducing the rate of or susceptibility to apoptosis or necrosis of tissues and organs.

20. The method of claim 19 wherein the aliquot of blood has a volume from about 0.1-100 ml.

21. The method of claim 20 wherein said at least one stressor is a temperature in the range from about -5° to 55° C.

22. The method of claim 20 wherein said at least one stressor is a temperature in the range of from about 40° to 50°C.

a³
cont. 23. The method of claim 20 wherein said at least one stressor is an oxidative environment comprising a mixture of ozone and medical grade oxygen, bubbled through the blood aliquot. 

24. The method of claim 23 wherein the gaseous mixture has an ozone content of from about 100-100 µg per ml.

25. The method of claim 20 wherein said at least one stressor is ultraviolet light in the UV-C band wavelength.

26. The method of claim 20 wherein all three said stressors are applied to the aliquot simultaneously.

27. The method of claim 26 wherein said stressors are applied for a period of time from 0.5 to 60 minutes.

ac3
Cont.

28. The method of claim 27 wherein the time is from about 2 to 5 minutes.
